## FISH RICHARDSON

Attorney's Docket No.: 06618-457001 / CIT2986

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Daniel P. Weitekamp

Art Unit :

2856

Examiner:

Thanh X. Luu

Filed Title

: May 22, 2000

: MEASUREMENTS OF ELECTROMAGNETIC PROPERTIES PAR RECEIVED

INTERACTIONS BASED ON RADIATION-EXCITED

**POLARIZATIONS** 

DEC 0 2 2002

Commissioner for Patents Washington, D.C. 20231

Serial No.: 09/576,654

TECHNOLOGY CENTER 2800

## RESPONSE

In response to the action mailed July 30, 2002, please amend the application as follows:

## In the specification:

Please replace the paragraph beginning at page 10, line 22 with the following rewritten paragraph:

-- Equation (1) can have AC components if the time dependence of  $P_s$  includes a field at a frequency  $(\omega_s)$  different from the frequency  $(\omega_{\text{p}})$  of the field responsible for the field gradient. This is the basis of proposals for ultrasensitive spectroscopy of trapped ions where the AC force is at the difference between two applied rf frequencies and is matched to one of the frequencies of the trapped ion motion. U. S. Patent No. 4,982,088 to Weitekamp et al., and Pizarro and Weitekamp,

CERTIFICATE OF TRANSMISSION BY FACSIMILE

I hereby certify that this correspondence is being transmitted by facsimile to the Patent and Trademark Office on the date indicated below.

Date of Transmission

Sharon Gebhart of Person Printed Name Typed or Certificate

Received from < 8586785099 > at 12/2/02 11:25:14 PM [Eastern Standard Time]